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Research Update Meeting 2005 - Zone II 2005

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Cape Cod Cranberry Growers' Association



Are you farming in a
groundwater protection
area (zone II)?

Step One: Are you using a product which contains an active ingredient on the Groundwater Protection List ?

Cranberry Pesticides on the Groundwater Protection List

■ Insecticides

- Thiamethoxam (Actara)
- Methoxyfenozide (Intrepid)

■ Herbicides

- Simazine (Princep, Caliber 90)
- Pronamide (Kerb 50W)

■ Fungicides

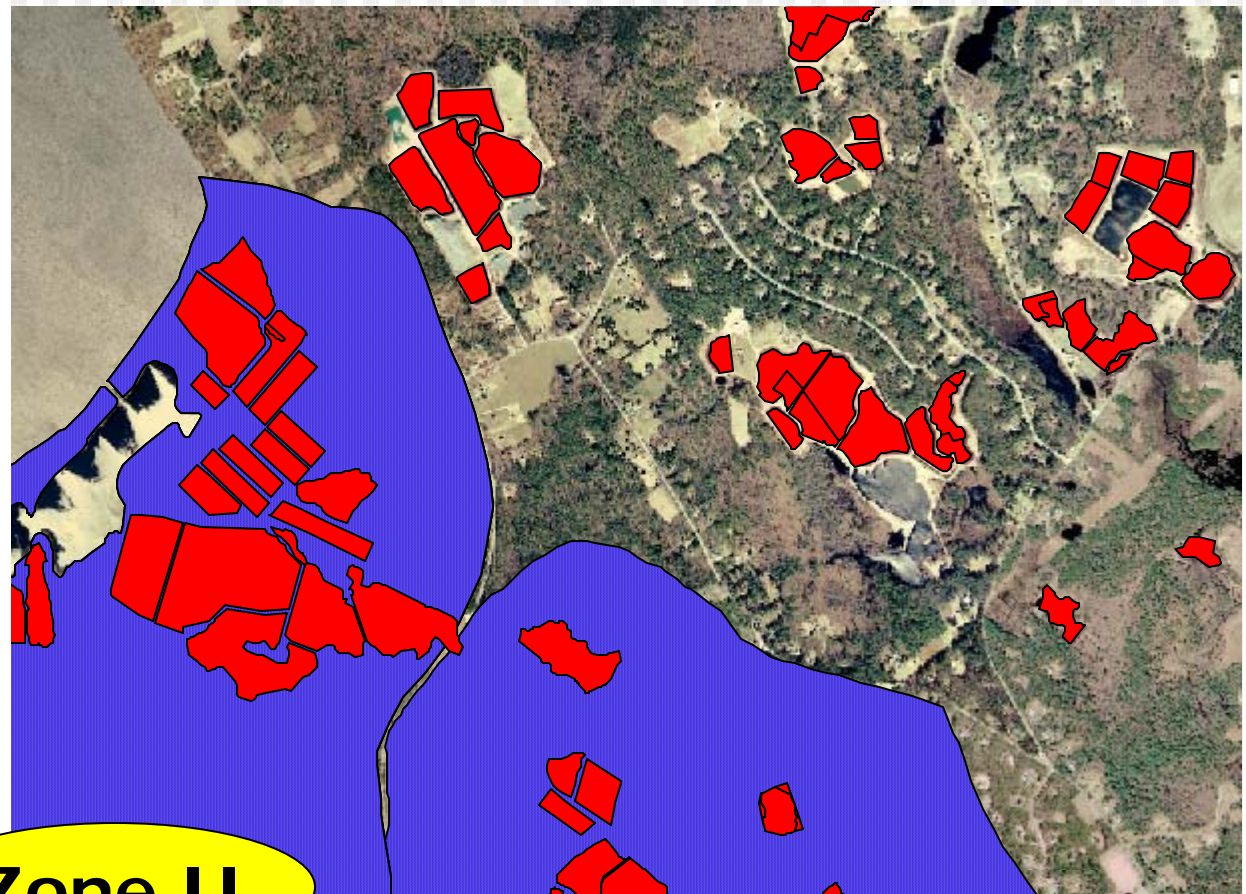
- Chlorothalonil (Bravo, Echo, Equus, Spectro)

**New
for 2005!**



Step Two: Are you applying a product which is listed on the Groundwater Protection List within a regulated primary recharge area ?

The primary recharge area is designated as a Zone II or an Interim Wellhead Protection Area (IWPA). Public drinking water wells that pump greater than 100,000 gallons of water per day (gpd).



Zone II

Where can you obtain information to determine if you are in a Zone II

- CCCGA Office (Maps and GIS)
- Cranberry Station (Maps)
- Plymouth County Conservation District/NRCS Office (GIS)
- Internet

<http://maps.massgis.state.ma.us>

Step Three: Are you applying pesticides in an area which has greater or less than a 50% foliar cover ?

- For a pesticide product which is applied to an area which has greater than 50% foliar ground cover the applicator must ensure that:
 - there is no viable alternative to the use of the pesticide, and
 - the pesticide is being applied as part of an Integrated Pest Management (IPM) program from Department approved sources, and
 - the Department of Agricultural Resources is notified of any applications of a product on the groundwater protection list within thirty days of application

No Viable Alternative

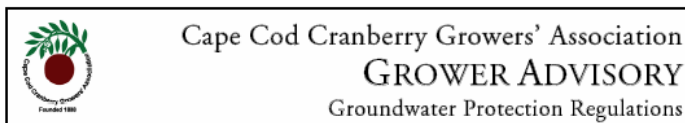
- Need to document that the pesticide that is on the groundwater list is the only viable option you have.
- Cranberry Station Staff provides in the form of a newsletter article or letter. (i.e. Actara for weevil, Bravo for fruit rot)

What is an Integrated Pest Management Program ?

- Pesticides on the groundwater list must be applied as part of an Integrated Pest Management (IPM) program from Department approved source.
"Department approved sources" include:
 - the current "Cranberry Chart Book " published by the UMass Cranberry Station

Submit Notification Form to DAR Within 30 days of application!!

Call CCCGA Office (508) 759-1041



The Department of Food and Agriculture (DFA)'s Groundwater Protection Regulations are intended to prevent contamination of public drinking water supply wells through regulating the application of pesticide products on the **Groundwater Protection List** (see page 3) within primary recharge areas. A primary recharge area is either an "Interim Wellhead Protection Area" or a "Zone II".

The pesticide groundwater protection regulations ONLY apply to public drinking water wells that pump greater than 100,000 gallons of water per day (gpd).

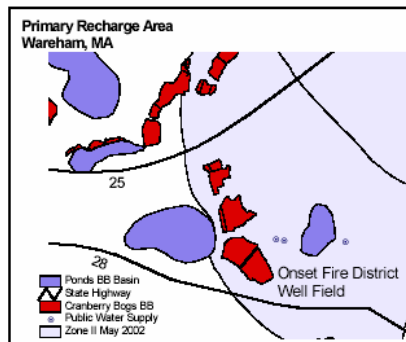
ARE YOU SUBJECT TO THESE REGULATIONS?

First determine if you are in a primary recharge area.

There are several steps, which you can follow to determine if you are operating within a primary recharge area:

Step One: First check to determine if a Zone II or WPA is located within the town where you plan to do an application. (see page 3). If there is a primary recharge area delineated within the town, you need to determine if your bog falls within the primary recharge area.

Step Two: To determine if your cranberry bog falls within a primary recharge area you can use the following options: Contact the CCCGA office (508) 759-1041 or the Plymouth County Conservation District office (508) 295-5496 to have a Geographic Information System determination made.



Example of GIS made of Onset Fire District

EXISTING PRODUCING CRANBERRY BOGS

A. For a pesticide product which is applied to an area which has greater than 50% foliar ground cover (Most established cranberry beds meet this requirement) the applicator must ensure that:

- There is no viable alternative for the use of the pesticide on the Groundwater Protection List (Chlorothalonil), and
- The pesticide is being applied as part of an Integrated Pest Management (IPM) plan from Department approved sources.
"Department approved sources" include: The current "Cranberry Chart Book" published by the University of Massachusetts Cranberry Station.

The Department does not require the submission of IPM plans for approval. Instead the applicator should maintain a copy of their IPM plan in their records. The plan should be specific to the pest problem requiring management with a pesticide on the Groundwater Protection List. The plan information should include:

Cranberry Grower Groundwater Protection Program Notification Form

You must notify the Department of Food and Agriculture Pesticide Bureau when you apply a pesticide product, which is listed on the Groundwater Protection List.

Name:

Pesticide License Number:

Daytime Phone: () Email Address:

Location and dates of Pesticide Application (Provide Specific Bog Information)

Primary Recharge Area (Location of Zone II or IWPA and town)

Pesticides Used including EPA Registration Numbers (Use Information from Label)

Purpose of Application

Additional Comments

Submit this form within 30 days of pesticide application to:

Gerard Kennedy
Massachusetts Department of Agricultural Resources
251 Causeway Street, Suite 500
Boston, MA 02114-2151